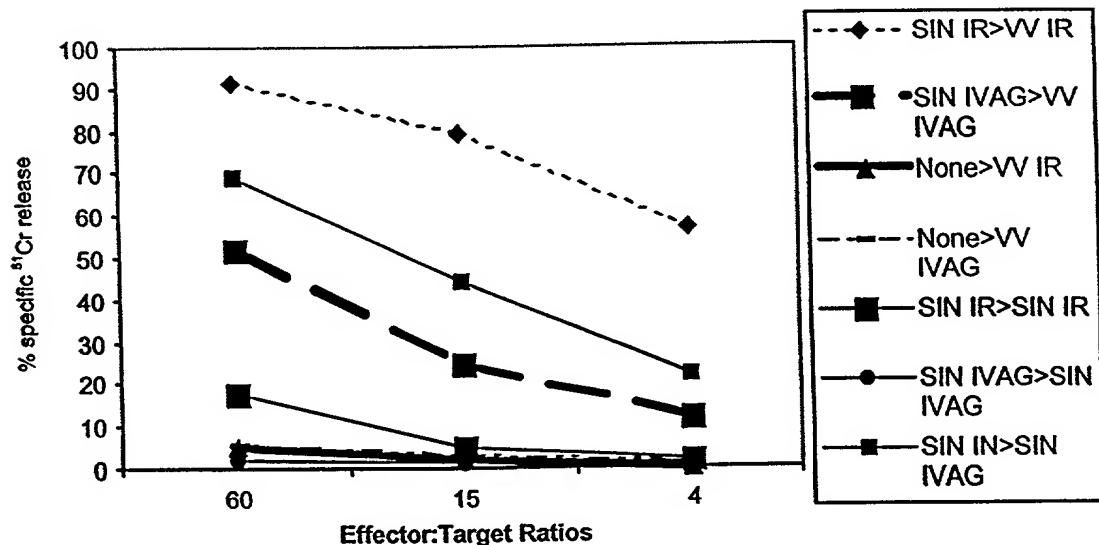
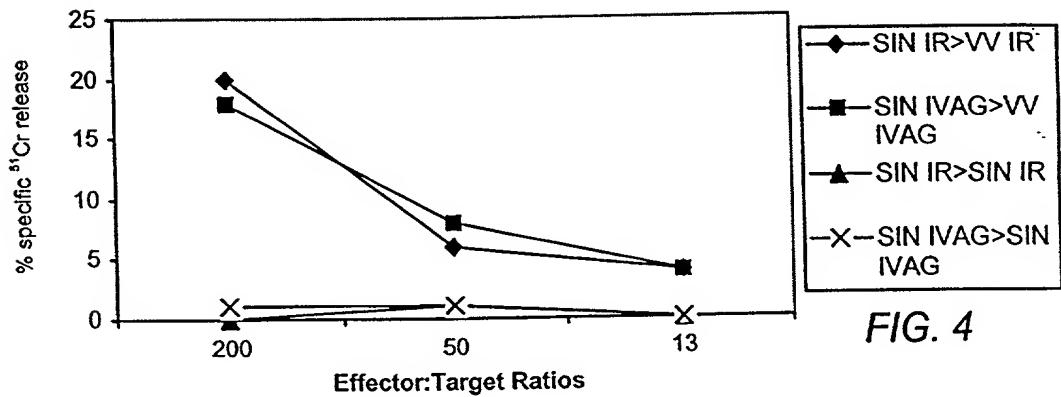


FIG. 3



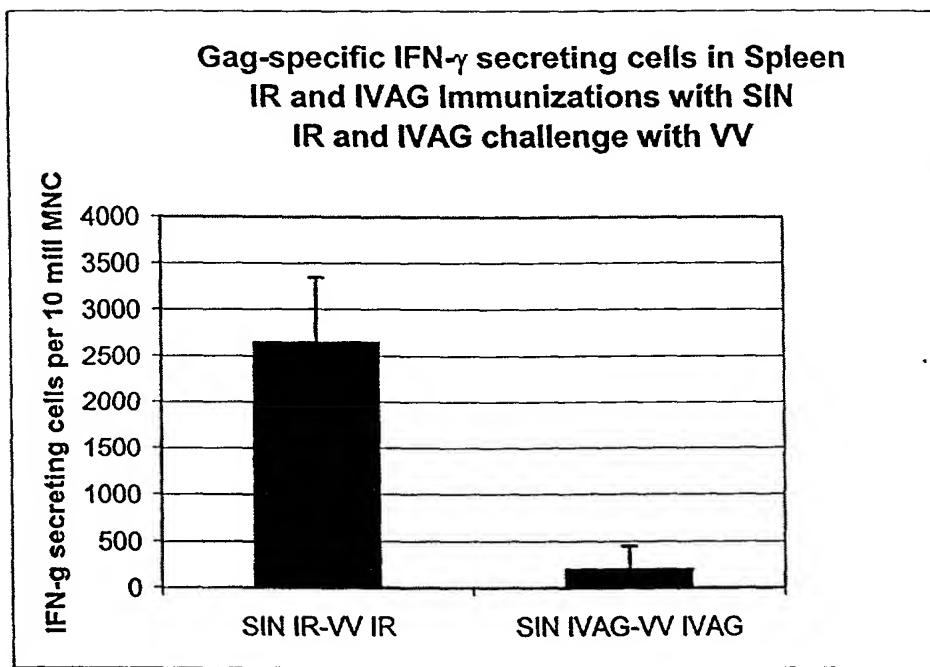


FIG. 6

Gag-specific IFN- γ secreting cells in iliac LN
IR and IVAG Immunizations with SIN
IR and IVAG challenge with VV

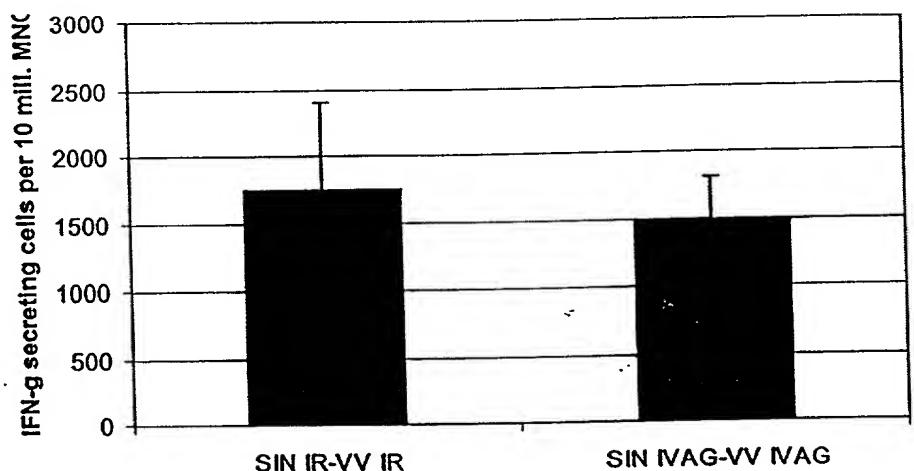
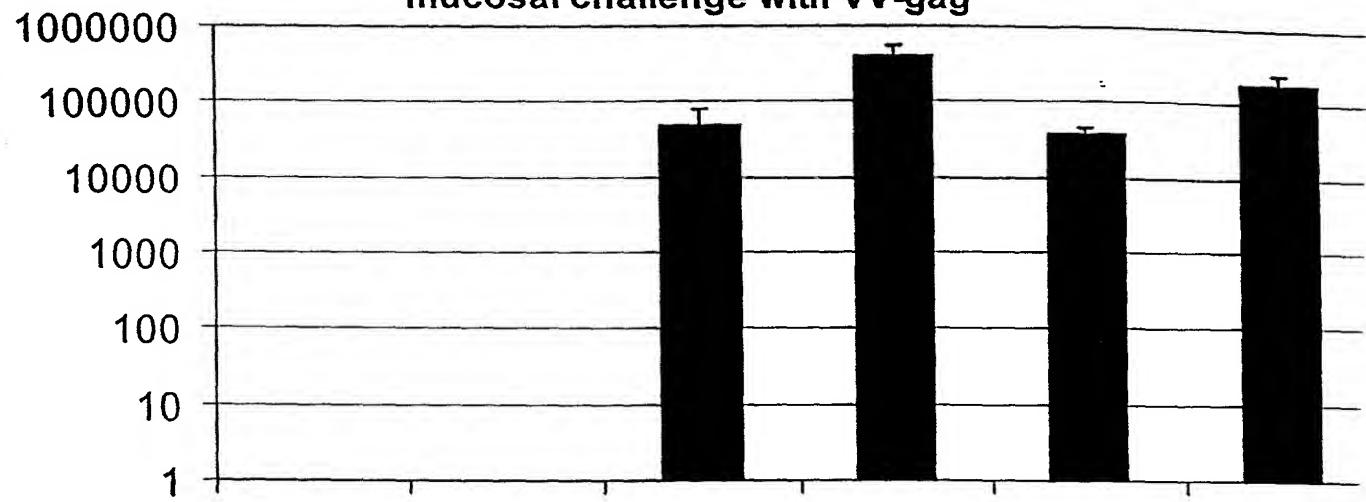


FIG. 7

Vaginal and rectal delivery of SIN-gag particles protects mice against mucosal challenge with VV-gag



immunization route	SIN IR	SIN IVAG	SIN IN	SIN IM	--	--
challenge route	VV IR	VV IVAG	VV IVAG	VV IVAG	VV IR	VV VAG
# mice protected	8/8	8/8	2/3	0/3	1/5	0/5

FIG. 8

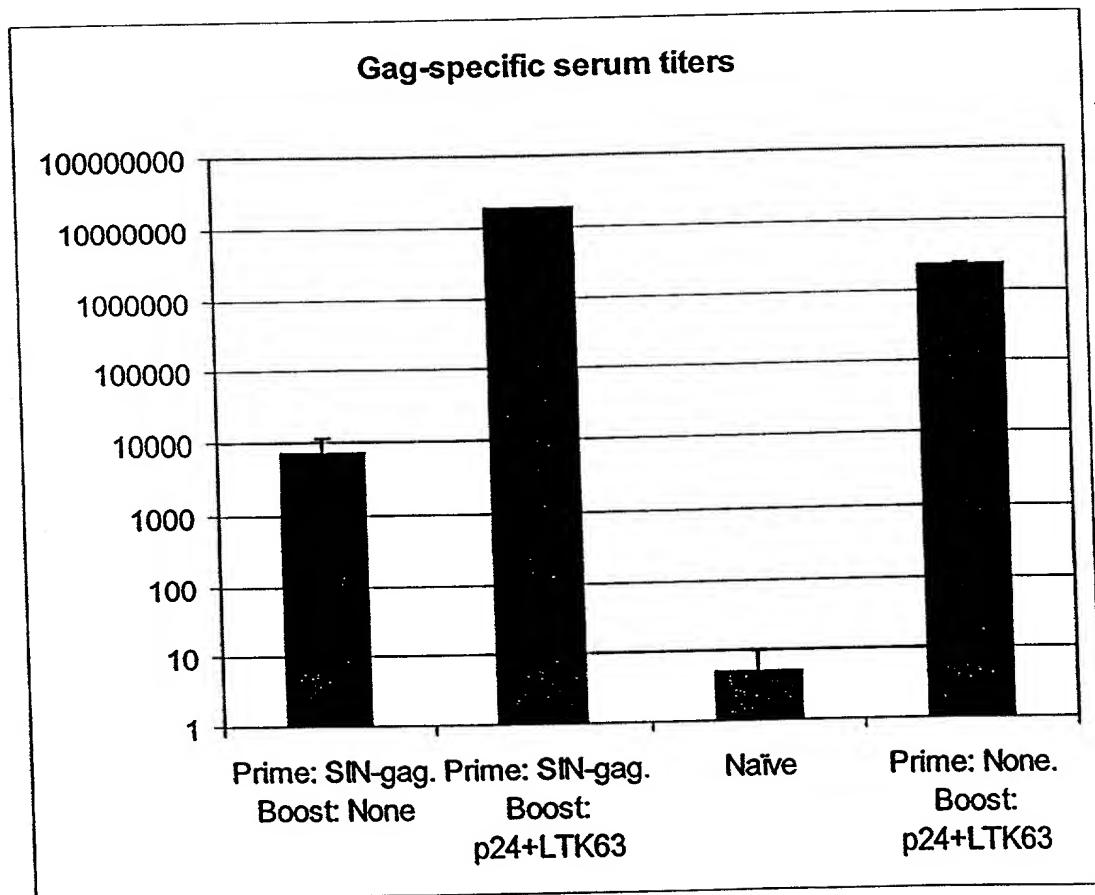


FIG. 9

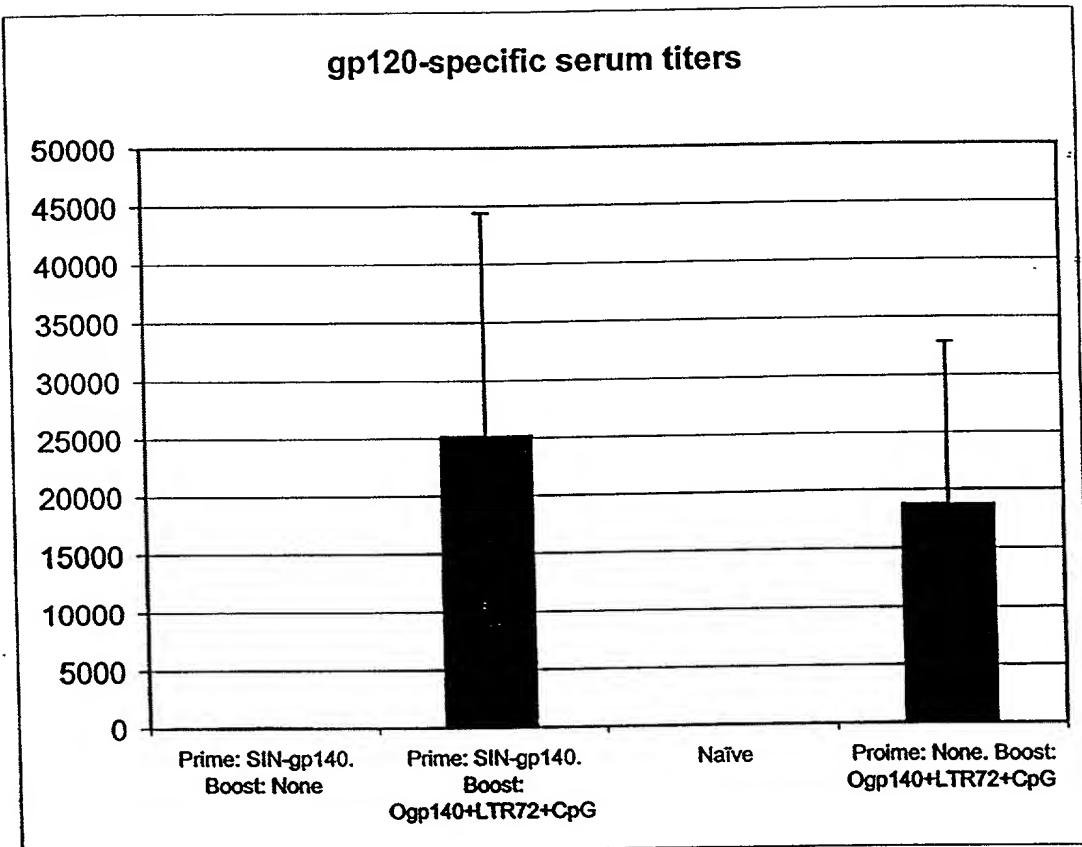


FIG. 10

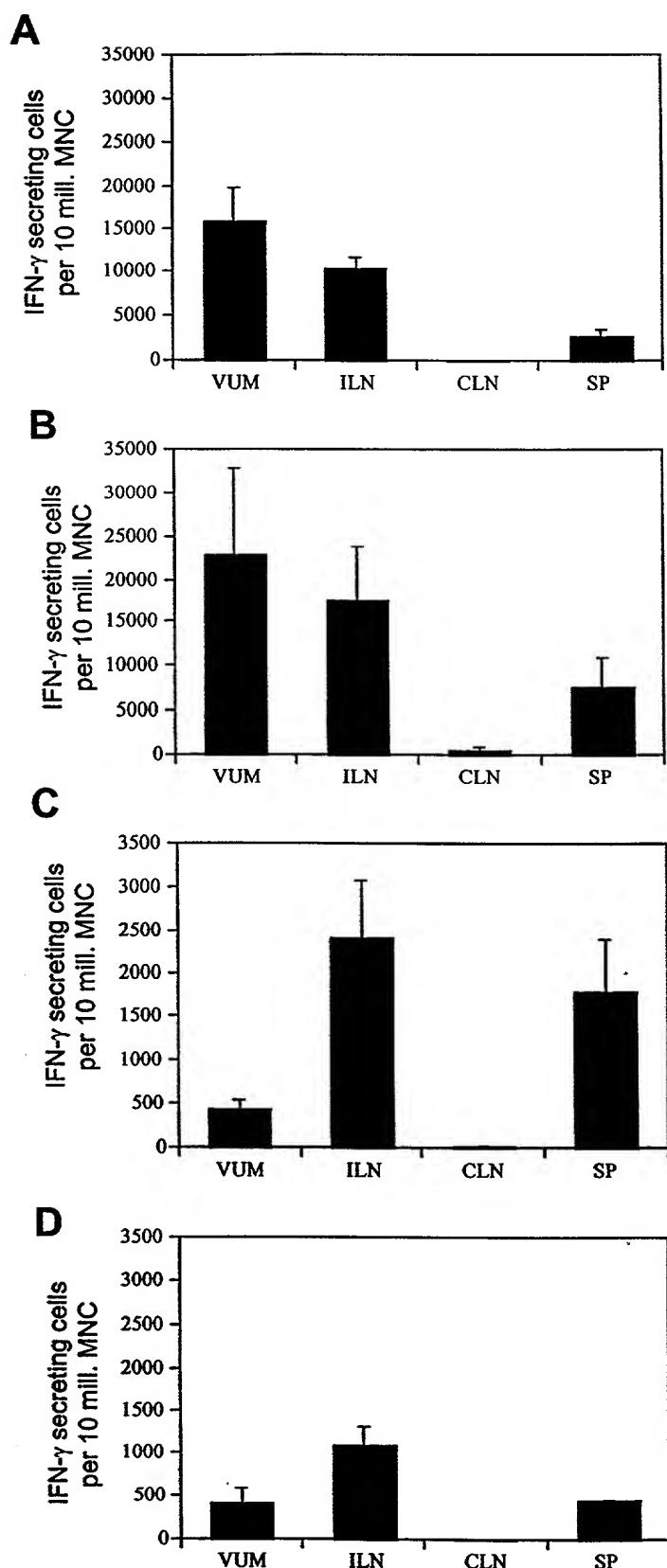


Figure 11

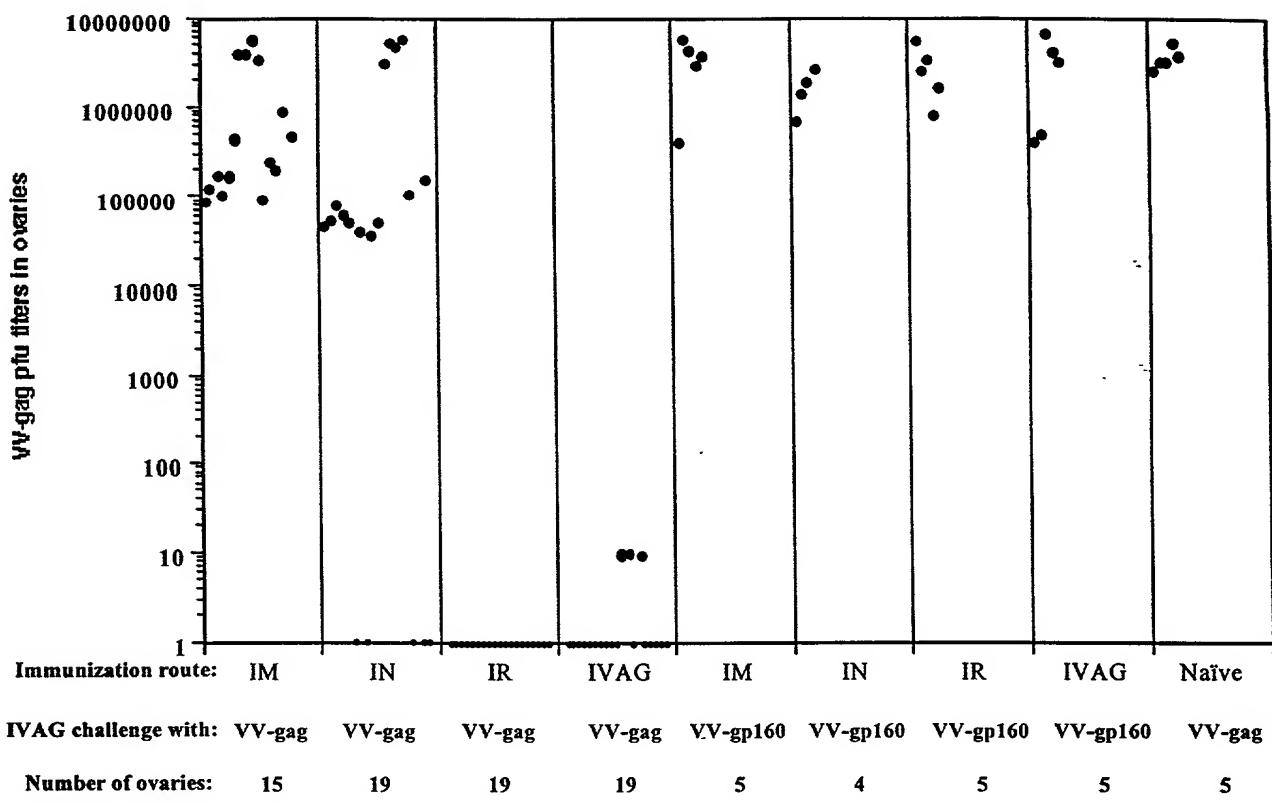


Figure 12

FIGURE 13

Comparison of splenic cellular HIV-gag (p7g) responses measured by IFN- γ ELISPOT assay, two weeks following three intra-nasal immunizations with various alphavirus-based replicon particles

